



Technical Data Sheet

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Material: Ecomass[®] Compound 1050C093

Nontoxic alternative to Lead (Pb), weighting and balancing applications

Description / Features: High Specific Gravity, Copper Powder Filled Polyamide (PA) Alloy, Rigid

Processing Method: Injection Molding

Physical Properties

| | Test Method | Value | Units |
|--|-------------|---------------|----------|
| Physical Properties | | | |
| Product Form | | Pellets | |
| Specific Gravity | ASTM D792 | 5.70 | |
| Mechanical Properties | | | |
| Tensile Strength | ASTM D638 | 6,500 | psi |
| Tensile Modulus | ASTM D638 | 1,400,000 | psi |
| Tensile Elongation at Break | ASTM D638 | 1.5 | % |
| Flexural Modulus | ASTM D790 | 1,250,000 | psi |
| Flexural Strength | ASTM D790 | 9,500 | psi |
| Izod Impact Strength, notched | ASTM D256 | 1.35 | ft-lb/in |
| Thermal Properties | | | |
| Heat Deflection Temperature at 66 psi | ASTM D648 | 318 | °F |
| Heat Deflection Temperature at 264 psi | ASTM D648 | 311 | °F |
| Electrical Properties | | | |
| Surface Resistivity | ASTM D257 | 0.21 | ohms/sq |
| Processing Information | | | |
| Melt Temperature Range | | 400 - 490 | °F |
| Mold Temperature Range | | 135 - 180 | °F |
| Mold Shrinkage Rate | ASTM D955 | 0.005 - 0.006 | in/in |
| Pre-Drying Conditions | | 4 hrs @ 165°F | |

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